INTERNATIONAL SEARCH REPORT

Inmetional Application No

PCT/JP2005/002089 CLASSIFICATION OF SUBJECT MATTER
C 7 C07C41/06 C07C IPC 7 C07C29/10 C07C31/20 C07C43/13 C07C43/178 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ^c Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 15 χ "Selective synthesis T. YAMAKAWA ET AL.: of 3-methoxy-1-propanol from methanol and allyl alcohol with metal oxide catalysts" CATALYSIS COMMUNICATIONS, vol. 2, 2001, pages 191-194, XP002331426 NLELSEVIER SCIENCE, AMSTERDAM 1 the whole document Α 15 "Synthesis of X T. YAMAKAWA ET AL.: 3-alkoxy-1-propanol from allyl alcohol by use of metal oxide catalysts in the liquid-phase" STUDIES IN SURFACE SCIENCE AND CATALYSIS., 2003, pages 549-550, XP008048324 NLELSEVIER SCIENCE B.V., AMSTERDAM. Α the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. X Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report **5**. 09. 2005 18 August 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

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C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	1 017 01 20037 002083		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; "Hydrolysis of mono-tertiary-alkyl ethers of alkylene glycols" XP002341169 retrieved from STN Database accession no. 1982:85044 abstract -& PATENT ABSTRACTS OF JAPAN vol. 006, no. 015 (C-089), 28 January 1982 (1982-01-28) & JP 56 138125 A (COSMO CO LTD), 28 October 1981 (1981-10-28) abstract	16-28		
X	EP 1 201 633 A (E.I. DUPONT DE NEMOURS AND COMPANY) 2 May 2002 (2002-05-02) cited in the application	28		
Α	the whole document	16		
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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 56138125	Α	28-10-1981	JP JP	1311014 C 60034927 B	11-04-1986 12-08-1985
EP 1201633	Α	02-05-2002	EP AT DE	1201633 A1 269841 T 50006894 D1	02-05-2002 15-07-2004 29-07-2004

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
see additional sheet					
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.					

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

A method for producing 3-alkoxy-1-propanol from allyl alcohol and an alcohol, optionally followed by hydrolysis. Furthermore 3-alkoxy-1-propanols.

2. claims: 16-28

A method for producing 1,3-propanediol by hydrolysis of 3-alkoxy-1-propanol. Furthermore 1,3-propanediol.